

**AMENDMENTS TO THE SPECIFICATION:**

Please amend the paragraph beginning at page 11, line 1, as follows:

Referring now to Fig. 1, the light transmitted from source rosette 23 enters through an entry port (not shown) and passes through sample cavity 18 to be emitted through an exit port 31 to be detected, preferably by means of a silicon photo-detector 27 disposed adjacent to exit port 31. A detected signal 28 corresponding to the beam intensity is input into a signal amplification and processing system 30. This can optionally be operated as a phase sensitive detection system in order to provide optimum detection sensitivity, with the LED's modulated accordingly. The output intensities from the detection system are preferably fed to a computing and control system 32, where the spectra obtained are analyzed by methods according to other preferred embodiments of the present invention. Computing and control system 32 passes control information 35 to LED sources 21, to provide the modulation frequency, if used, and which is also input by means of control line 36 to the phase sensitive detector in the signal amplifying and processing system 30. Computing and control system 32 also controls the switching order and timing of the LED sources 21, for scanning the complete spectral range to be measured.

Computing and control system 32 transfers the results of the analysis to output display 34 for display.

Please amend the paragraph at page 14, beginning at line 6:

Results of these concentration analyses for all of the milk components detected, are preferably printed or displayed on output ~~unit~~display 34 and transferred to a herd management system for analysis.